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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article-36 and Rule-70)

		•		(PC) Article-30.	anu-nu	16-7.0)	****	
	ant's or 726A	agen	's file reference	FOR FURTHER ACT	TION See Prei	Notification iminary Exa	of Transmittal of Interna mination Report (Form F	itional PCT/IPEA/416)
		International filing date (da 13.10.2003			Priority date (dayImpritt	rlyear)		
	ational (31/42		t Classification (IPC) or	both national classification and	d IPC	·		
Applio BOA	ant RD 0	FSL	IPERVISORS OF L	OUISIANA STATE UNI	VERSITY	14 for 122 11	ng tomand to all ng itti tik in sa	alks to Papage 1 or a 1850 eeu 1775.
1.	This i	nterna ority a	ational preliminary ex nd is transmitted to ti	amination report has been ne applicant according to A	prepared b	y this Inte	rnational Preliminary E	Examining
2.	This I	REPO	RT consists of a total	of 4 sheets, including this	s cover she	eet.		
This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheets.						rings which have ore this Authority		
								, .
3.	This			relating to the following ite	ems:			
	1	☒	Basis of the opinion					
II ☐ Priority III ☑ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV ☐ Lack of unity of invention				oility				
V Neasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicable citations and explanations supporting such statement					trial applicability;			
	VI		Certain documents					
	VII			he international application			C . (Below)	3.5
	VIII		Certain observation	ns on the international appli	loadon			
Date	e of sub	missi	on of the demand		Date of co	mpletion of t	this report	
26.	04.20	04			04.01.20	005		
Nan	ne and iminary	exam	g address of the internationing authority:	tional	Authorized	d Officer		Southern Peterson, E.
-	9)	D-	iropean Patent Office 80298 Munich al. +49 89 2399 - 0 Tx: 5	323656 epmu d	Uiber, P		•	
_	<u> </u>	. Fa	x: +49 89 2399 - 4465	-	Telephone	No. +49 89	2399-8474	Office entry

IN E	TERI (AMI	NATIONAL PREL	IMINARY	International application No	РСТ/В 03/04514	
I.	Basi	s of the report				
1.	With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):					
	Desc	cription, Pages				
	1-8		as originally file	d		
	Clair	ms. Numbers	and the state of t	anagaya ganari sanan mengalarkan kagan danggan bersada Kilisti sanakin kal	g tradegge state the selection of the selection of	
.			as originally file			
2.	1-16 With lang		u de - de membre ma	arked above were available or fun as filed, unless otherwise indicate	nished to this Authority in the od under this item.	
	The	se elements were ava	ilable or furnished to th	is Authority in the following langu	age: , which is:	
		the language of a trai	nslation furnished for th	e purposes of the international se	earch (under Rule 23.1(b)).	
		the language of publi	cation of the internation	nal application (under Rule 48.3(b)).	
		the language of a training the language of a tra	nslation furnished for th	ne purposes of international prelin	ninary examination (under	
3	. With	n regard to any nucle rnational preliminary e	otide and/or amino ac examination was carrie	id sequence disclosed in the inte d out on the basis of the sequenc	ernational application, the e listing:	
		contained in the inter	rnational application in	written form.		
				on in computer readable form.		
			ntly to this Authority in v			
		furnished subsequer	ntly to this Authority in o	computer readable form.		
		The statement that to	he subsequently furnis pplication as filed has l	ned written sequence listing does been furnished.		
		The statement that t	he information recorde	d in computer readable form is ide	entical to the written sequence	
	4. The	e amendments have r	esulted in the cancellat	ion of:		
		the description,		· · · · · · · · · · · · · · · · · · ·	**	
		the claims,	Nos.:	•		
		the drawings,	sheets:			
	5. 🗆	This report has been	n established as if (son	ne of) the amendments had not borger as filed (Rule 70.2(c)).	een made, since they have	
		(Any replacement s	heet containing such a	mendments must be referred to u	nder item 1 and annexed to this	
	6. Ad	ditional observations,	if necessary:			

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.___PCT/IB 03/04514____

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					t. inventive ste	on and industrial annlicability		
11.	Nor	n-establishment of opinion wit	n rega	ra to nove	ty, inventive ste	ep and industrial applicability		
i.	The obv	ne questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- ovious), or to be industrially applicable have not been examined in respect of:						
\square the entire international application,								
	Ø	claims Nos. 2-14						
		because:						
the said international application, or the said claims Nos. 2-14 relate to the following subject does not require an international preliminary examination (specify):						ate to the following subject matter which):		
		see separate sheet						
the description, claims or drawings (indicate particular elements below) or said claims Nos. a that no meaningful opinion could be formed (specify):								
		the claims, or said claims Nos could be formed.	. are so	inadequate	ely supported by	the description that no meaningful opinion		
		no international search report	has be	en establish	ed for the said c	laims Nos.		
 A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotid or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions: 					out due to the failure of the nucleotide and			
		the written form has not been	furnish	ed or does	not comply with	the Standard.		
		the computer readable form h	as not	been furnisl	ned or does not o	comply with the Standard		
V	. Re	easoned statement under Arti tations and explanations supp	cle 35(porting	2) with regards such state	ard to novelty, i	nventive step or industrial applicability;		
1	. St	atement						
	No	ovelty (N)	Yes: No:	Claims Claims	1-14 15-16			
	in	ventive step (IS)	Yes: No:	Claims Claims	1-14 15-16	e e e e e e e e e e e e e e e e e e e		
	ln	dustrial applicability (IA)	Yes: No:	Claims Claims	1,15,16 2-14			
2	2. C	itations and explanations						

Form PCT/PEA/409 (January 2004)

see separate sheet

INTERNATIONAL PRELIMINARY

International application No. PCT/IB 03/04514

EXAMINATION REPORT - SEPARATE SHEET

SECTION III

Claims 2-14 relate to subject-matter considered by this Authority to be covered by 1). the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Art. 34(4)(a)(i) PCT).

SECTION V

- For the assessment of the present claims 2-14 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.
- The following documents (D1-D3) are referred to in this written opinion; the 3). numbering results from the order of citations found in the Search Report and it will be adhered to in the rest of the procedure. It will be made reference to the cited passage(s) for each citation unless otherwise specified.
- a) The subject-matter of claims 15 and 16 lacks novelty over D1-D3 (Art. 33(2) PCT). Said documents already report pharmaceutical compositions or commercial package containing said epothilone derivatives. It is reminded that an "even" novel use does not restore the novelty of an already known (in therapy) pharmaceutical composition. Additional novelty destroying documents can be found on page 2 of the present application.
 - b) None of D1-D3 reports the use of said epothilone derivatives in the treatment of hyperparathyroidism. The subject-matter of claims 1-14 is novel over D1-D3 (Art. 33(2) PCT).
- None of D1-D3, alone or in any combination, suggest the use of said said 5). epothilone derivatives in the treatment of hyperparathyroidism. The subject-matter of claims 1-14 involves an inventive step over D1-D3 (Art. 33(3) PCT).